

Application No. 10/588,311
Amendment dated January 17, 2008
Reply to Office Action of July 20, 2007

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Docket No.: 80315(302753)

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-5 (Canceled)

Claim 6 (Currently Amended) A needle-like member that constitutes a conductive contact which electrically connects a first object, the needle-like member comprising:

a columnar member having

a first end and a second end;

a through hole that connects the first end to the second end; and

a contact member configured to electrically contact with the first object and arranged at the first end,

wherein the through hole tapers from the first end toward the second end.

Claim 7 (Previously Presented) The needle-like member according to claim 6, wherein the second object is a circuit that generates and transmits an electrical signal to be supplied to the first object.

Claim 8 (Previously Presented) The needle-like member according to claim 6, wherein the second object is a circuit board that includes a circuit for generating and transmitting an electrical signal to be supplied to the first object.

Claims 9-10 (Canceled)

Claim 11 (Previously Presented) The needle-like member according to claim 6, wherein the contact member is located near a periphery of the columnar member in a longitudinal direction to come in contact with a periphery of a connecting electrode of the first object.

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Claim 12 (Currently Amended) A conductive contact that electrically connects a first object to a second object, the conductive contact comprising:

- a first needle-like member that included a columnar member having
 - a first end and a second end;
 - a through hole that connects the first end to second end; and
 - a contact member configured to electrically contact with the first object and arranged at the first end; and
- a second needle-like member that is arranged to electrically connect to the first needle-like member, and slide in the through hole of the first needle-like member; and
- a spring member that is fixed to the first needle-like member and surrounds an outer surface of the columnar member, and applies an elastic force on the second needle-like member present in the through hole.

Claim 13 (Previously Presented) The conductive contact according to claim 12, wherein the second object is a circuit that generates and transmits an electrical signal to be supplied to the first object.

Claim 14 (Previously Presented) The conductive contact according to claim 12, wherein the second object is a circuit board that includes a circuit for generating and transmitting an electrical signal to be supplied to the first object.

Claim 15 (Previously Presented) The conductive contact according to claim 12, wherein the through hole has a constant diameter.

Claim 16 (Previously Presented) The conductive contact according to claim 12, wherein the through hole tapers from the first end toward the second end.

Claim 17 (Previously Presented) The conductive contact according to claim 12, wherein the second needle-like member includes

- a support member that is slidable in the longitudinal direction while being in contact with an inner surface of the through hole; and

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a contact member that is integrally formed with the support member, and configured to electrically contact with the second object.

Claim 18 (Currently Amended) A conductive contact unit comprising:

a conductive contact including

a needle-like member that includes a columnar member having a first end and a second end, a through hole that connects the first end to the second end, and a contact member configured to electrically contact with an object; and

a spring member surrounding an outer surface of the columnar member that biases the needle-like member in a direction perpendicular to the object; and

a conductive contact holder that includes a holder hole for accommodating the conductive contact.

Claim 19 (Previously Presented) The conductive contact unit according to claim 18, further comprising a circuit that generates and transmits an electrical signal to be supplied to the object.

Claim 20 (Previously Presented) The conductive contact unit according to claim 18, further comprising a circuit board that includes a circuit for generating and transmitting an electrical signal to be supplied to the object.

Claim 21 (Previously Presented) The conductive contact unit according to claim 18, wherein the through hole has a constant diameter.

Claim 22 (Previously Presented) The conductive contact unit according to claim 18, wherein the through hole tapers from the first end toward the second end.

Claim 23. (New) A needle-like member that constitutes a conductive contact which electrically connects a first object to a second object, the needle-like member comprising:
a columnar member having a first end and a second end, and a through hole that connects the first end to the second end; and

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a contact member configured to electrically contact with the first object and arranged at the first end,

wherein the columnar member and the contact member are integrally formed.

Claim 24 (New) The needle-like member according to claim 23, wherein the second object is a circuit that generates and transmits an electrical signal to be supplied to the first object.

Claim 25 (New) The needle-like member according to claim 23, wherein the second object is a circuit board that includes a circuit for generating and transmitting an electrical signal to be supplied to the first object.

Claim 26 (New) The needle-like member according to claim 23, wherein the through hole has a constant diameter.

Claim 27 (New) The needle-like member according to claim 23, wherein the through hole tapers from the first end toward the second end,

Claim 28 (New) The needle-like member according to claim 23, wherein the contact member is located near a periphery of the columnar member in a longitudinal direction to come in contact with a periphery of a connecting electrode of the first object.

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